

STEERING CONTROL UNIT FOR VEHICLE

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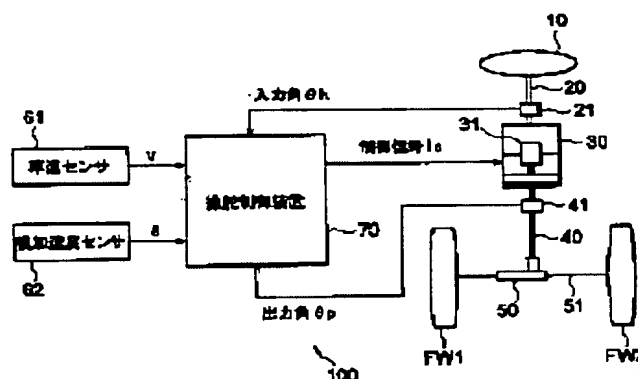
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Abstract of JP11334628

PROBLEM TO BE SOLVED: To improve vehicle stability while turning by setting a change rate so as to control a change amount of a transmission ratio in the case where lateral movement of a vehicle is large.

SOLUTION: Drive control of a transmission ratio variable mechanism 30 is implemented by a steering control unit 70. Detection results of an input angle sensor 21 and an output angle sensor 41 as well as detection signals of a vehicle speed sensor 61 that detects a vehicle speed and a lateral acceleration sensor 62 that detects a lateral acceleration generated in the vehicle are provided, and the transmission ratio is set based on these signals. By setting a change rate α based on a lateral acceleration g which is generated in a vehicle, the change amount of a transmission ratio G is controlled. Accordingly, a rapid increase in lateral acceleration g generated in a vehicle is controlled. Therefore, even when the vehicle speed changes in a turning state where lateral acceleration of a size around a limit lateral acceleration is generated in a vehicle, decrease in vehicle stability owing to change in transmission ratio is sufficiently controlled.



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